

Name _____

Date _____ Pd. _____

Notes: Operations on Rational Numbers**Background Vocabulary**

sum – _____

difference – _____

product – _____

quotient – _____

Fractions

When adding or subtracting fractions with the same denominator, we _____

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When multiplying fractions, we _____

When dividing fractions, we _____

Decimals

The important thing to remember when adding and subtracting decimals is to line up _____

The important thing to remember when multiplying decimals is _____

The important thing to remember when dividing decimals is _____

Integers

integers – _____

Adding integers

If both numbers are positive, then the sum is _____.

If both numbers are negative, then the sum is _____.

If one number is positive and one is negative, then the sum is based on which number has the larger

_____.

Subtracting integers

Change the problem to addition: $a - b =$ _____ $a - (-b) =$ _____

Use the rules for addition

Multiplying and Dividing integers

If both numbers are positive, then the product or quotient is _____.

If both numbers are negative, then the product or quotient is _____.

If one number is positive and one is negative, then the product or quotient is _____.

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Exit Card: Operations on Rational Numbers

Sue is scheduled to take a biology test at school today. To perform well on the test, she knows it is best to eat a breakfast with a high ratio of carbohydrates to serving size.

CARBOHYDRATE CHART

Food	Serving Size (in grams)	Carbohydrates (in grams)
Bagel	68	38
Milkshake	283	60
Raisins	145	115
Wheat cereal	25	23

Which of these foods has the highest ratio of carbohydrates to serving size?

- F Bagel
- G Milkshake
- H Raisins
- J Wheat cereal

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Homework: Pages 111-113 (16, 18, 25 – 27, 29 – 32, 35, 38 – 41, 43, 48)

<p>16. $4 + (-4) =$ <i>which is the same as $4 - 4$</i> so the answer is $4 - 4 = 0$</p>	<p>18. $-0.8 + (-1.2) =$ <i>which is the same as $-(0.8 + 1.2)$</i></p>
<p>25. $-7.7 - (-5.2) =$ <i>which is the same as $-7.7 + 5.2$</i></p>	<p>26. $\frac{9}{2} - \left(\frac{1}{2}\right) =$</p>
<p>27. $-\frac{1}{8} - \left(-\frac{2}{3}\right) =$</p>	
<p>29. $12(-3) =$ <i>remember that the product of opposite signs is negative</i></p>	<p>30. $-8.2(4.5) =$</p>
<p>31. $-2.4(-3.6) =$ <i>remember that the product of the same sign is positive</i></p>	<p>32. $\frac{3}{4} \cdot \frac{7}{12} =$</p>

35. $-5(-2n) - 9n =$

remember your correct order of operations

38. $-\frac{74}{8} =$

39. $21.8 \div (-2) =$

40. $-7.8 \div (-6) =$

remember the quotient of same signs is positive

41. $-15 \div \left(\frac{3}{4}\right) =$

43. $\frac{14 - 28x}{-7} =$

remember to split up the numerator first

48. $\frac{2x - z}{4} + 3y =$